



FLORIDA SKIP

VOL. 10 NO. 4

The All Florida Radio Amateur's Publication SEPTEMBER 1966

Price 20¢

BOWLING

By Mel Page WA4NHT

The Fourth Annual Bowling Tournament of the Americas was held at the Cloverleaf Bowling Lanes on Rt. #441 in North Dade. This tournament headed by Lee Evans of the Miami-Metro News bureau brought bowlers from 26 countries in North America to try for first prize. Representatives of these countries bowled from July 14 to July 17 in individual matches and team efforts. Top single mens bowler was John Wilcox of the U.S.A. This tournament takes about one year in the making and since this is a non-profit, goodwill effort, the members of the North Miami Amateur Radio joined forces with the news bureau to utilize amateur radio in this endeavor. Throughout the year phone patches were made by club members to various countries to help line up the bowlers to participate in the tournament. Relays of messages by amateur radio operators in Central and South America were taken with quite a bit of enthusiasm and handled expertly. Much to everyone's surprise some of the bowlers that came up here were also amateurs.

The North Miami Amateur Radio Club set up a station in the lobby of Cloverleaf Lanes adjoining the Sports Press Departments of several newspapers. A Galaxy 5 transceiver, operating on 15 and 20 meters, was used to provide contacts for visiting bowlers. A crew of

(Continued on Page 14)



Here Mel Page WA4NHT, NOMAC Publicity Director is operating the Bowling tournament station WA4KJF, K4YSN, K4-KRN, WA4UJD, WA4ZQO and other club members took turns operating 20 and 15 meter SSB sending bowling scores to many South American countries. (See front page for details.)

First U.S. Amateur In Italy

Dick Ackerman WA4FLJ, former PAM in West Florida (Panama City) informed FLORIDA SKIP he is the first U.S. Amateur to obtain permission to use his call portable II "when the ship in which he is embarked and which has his station is located in Italian ports or in Italian Territorial Waters. The authorization is valid until 31 December 1966."

Dick has a TR-3 on 20 SSB and c.w. and requests the boys look carefully on SSB, as many of the S-9 stations there never answer his calls. He says -- "my biggest gripe on 20 meters is that when I do get through on 20, nobody knows what a

message is, let alone what to do with it. I have found only one, and that was W1AW who QSP'd one to W4MLE. Like I told Geo., if HE didn't take my traffic I would have resigned from ARRL and taken down my dipole forever!"

TAMPA HAMFEST

The Hillsborough Amateur Radio Society (HARS), Annual Tampa Hamfest will be held on Sunday, October 16, 1966 9:00 a.m. to 4 p.m. at Rowlette Park, Hillsborough River and 22nd Street. Free lunch, large swap table area, free parking and lots of prizes.

"DER PIPPENSQUEAKER"

A 160-Meter C.W.-only low-power Transmitter by W4MLE

(PART I)

I needed a separate transmitter for 160 meters to use mostly as a backstop for QFN operation and for casual hamming. No radio telephone capability was required. As much as possible, the rig was to be constructed from components already on hand or in the junk box and must be v.f.o. controlled. Further, it must produce a T9X note. (Will have diagrams and photo later.)

THE VFO

The v.f.o. is designed to operate on 900 Kc. and uses the 705 -Kc. b.f.o. coil from a command receiver for its frequency control. The button-mica padder was removed from the transformer and air-variable padders were connected externally in its stead. Additionally, since this was to be used in the cathode-grid circuit, the polarity of the windings had to be reversed and arrangement had to be made to feed blocking bias to the control grid without involving the transformer. The necessary modifications in the coil were easy to make. The oscillator coil from a broadcast receiver could also have been adapted easily to the purpose.

The tube used was a 6AH6 rather than a 6AU6, to avoid

(Continued on Page 16)

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Dear Mabel XYL Award, c/o Skip, Box 501, Miami Springs, Fla.

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Platinum Coast ARS, Gene Starr WA4JDB, 856 Clarke Ave., Eau Gallie, Fla.

So. Miami. Charles K. Lingo WA4RSX, P.O. Box 81, So. Miami.

Tampa HARC, Bill Lynn, K4VAO, Rte. 1, Box 243, Odessa, Fla. 33556

Tampa, TARC, Dan Fisher, WA4CJG, 4622 Beach Park Dr., Tampa, Fla. 33609.

PERSONALLY SPEAKING

By A. L. Hamel, K4SJH
Vice-Director SE Div.

Thanks to the many clubs and individuals that donated a goodly part of my travel expenses so that I could attend the board meeting this year. As an observer I was not permitted to participate in the discussions unless invited, so ample opportunity to listen and note was forced upon me. To those who know me intimately this might be considered to be a good thing.

When Andy, W4IYT, agreed to act as SCM during my absence all obstacles were removed and I duly arrived at Headquarters in Newington about noon of the 4th. I was almost immediately invited to join the others at the meeting then in progress.

Since Director Bolvin participated in the official meetings he is the one, of course, to comment on the proceedings in that light. I shall limit my comments to personal observations.

Having been more or less exposed to various types of board meetings, conferences, work-shops, etc. I had anticipated the need to make a few notes and to possibly have need for the No-Sleep tablets that I had thoughtfully provided. I need not have bothered for there was never a moment that I was permitted to be anything but intensely interested.

Heretofore I had formed a mental picture of what happened at these board meetings by reading the minutes of each meeting. What else was available? I discovered just how misleading an impression gained in this way can be. It seemed to me that everything was so cut and dried, so routine, and that the participants themselves must be truly bored to death - for that is the feeling I got after reading the minutes. Have you felt this way?

I am happy to report that my preformed opinions suffered a severe shock. First of all I discovered that these officials were actually no different than

I as far as handsome is concerned. Their only difference with the run-of-the-mill ham was that they seemed more interested, more dedicated, to the future path of ham radio, guided by the ARRL. They were DOING something concrete, not just complaining. I came to realize, for the first time, just how much real work was involved in running this ARRL of ours. Hour upon hour of intense discussion involving numerous complex issues, further complicated by vast differences of opinion as expressed by the constituents of each Director. How can Hams engaged in the same activities differ so much simply because of geographical location - or is there some other basic reason. Survey figures, on various pertinent questions, were brought into play frequently by various Directors. This showed me definitely that here was true representation.

While there were necessarily many minor actions that had to be taken, there were on the other hand a large number of major actions taken care of. Most of these involved much discussion with resulting give and take. Most were resolved - a few were held over for further study. Make no mistake. Much was accomplished. Many hours, both official and unofficial were spent in fighting for what each Directors constituents wanted. YOU were truly represented in accordance with your EXPRESSED desires. Those of you who did not bother to express an opinion have only yourselves to blame if you feel "left out."

While at this meeting I had the opportunity to renew many old acquaintances and friendships among those present. At no time was I given less than complete attention while expressing my own opinions. Utmost courtesy and consideration seemed to be the rule even in the presence of much tension.

Your own Director Mr. Bolvin "fought the good fight." Remember one thing. You can't win them all and there is always the next meeting. Gains were made and will be followed up during the course of this year when new attempts will be made to "sell" YOUR ideas. We have made friends and gained respect.

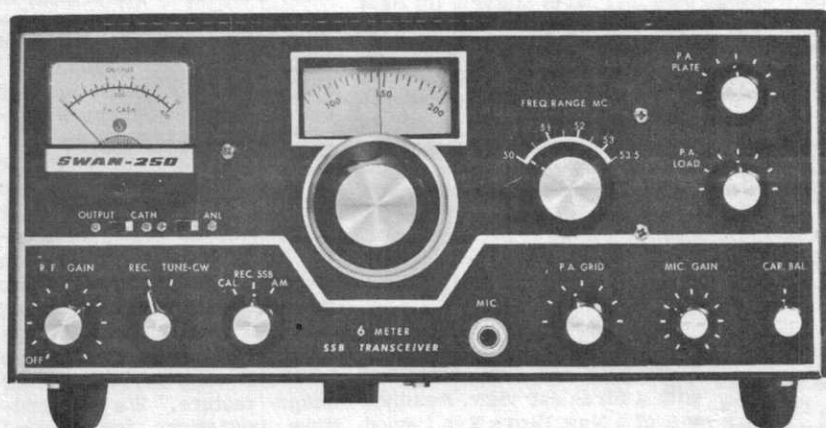
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P. O. Box 44, Vero Beach, Fla. 32960.

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West Palm ARC, Roy Carter, - WA4SFF, 2320 Fairway Dr., West Palm Beach 33401.



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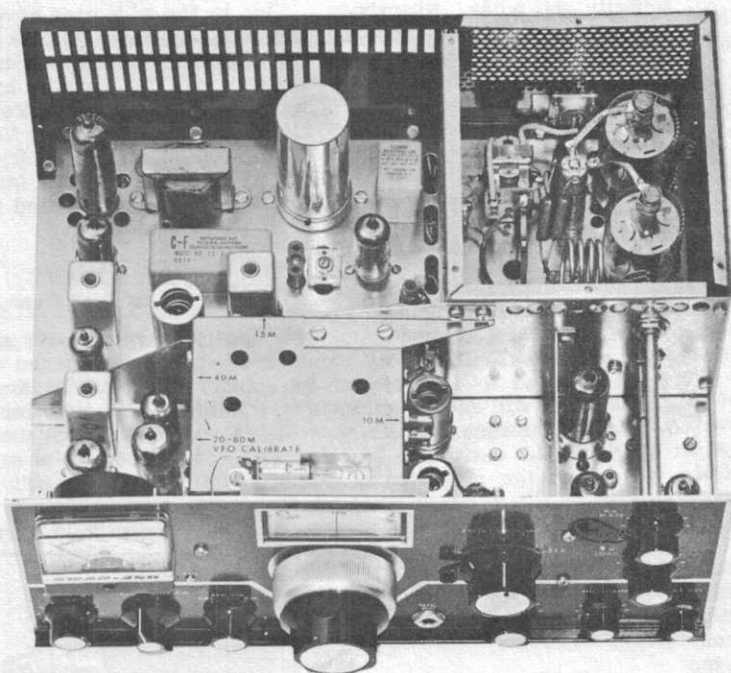
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What About Six?

For many years now, SIX METERS (50-54 MC to you high and mighty ones) has been a popular local band with a few Technicians taking advantage of the few openings to out-of-state DX, now and then.

If you are new on six, you may have not really caught the "bug" yet. The rabid fisherman may delight in just wetting a line off a busy bridge - for who knows, "He Might Just Catch One." The longer the wait, the greater the surprise. Quite so with SIX. The band can appear perfectly dead for five or six days, but let one "skip" signal slip in and at least six locals will call him!

Why? you ask. I wish I knew! It is impossible to work all states on six-OR IS IT? Want to be a Hero, just work all states and see. W4KKU did in 1961, when there were only 48 states. W4GJO was next, and then K4HNS. 36 hams in Florida claimed 35 or more states by the end of 1961. Today it is possible to work about 30 states with some effort but conditions are definitely on the up-swing, as the sun-spot cycle increases.

All last year, we experienced the lowest sun-spot activity for many years, but despite this, on July 5th (1965) the band was wide open to some 18 states throughout the day. These were all AM signals with strength 5/9 plus, readable at least 10 minutes on a dophole antenna with zero gain.

From our log we note at least 10 states trickled through each month, with Texas, Ohio, and New York leading the pack. It was possible to work Mississippi, Virginia, Ohio, and New York mobile on many occasions with 5/9 signals both ways.

The best hours to look for band openings has been from 2 to 5 in the afternoon. Nine to eleven in the morning is sometimes open. Five to eight in the evening is another good bet. Very seldom does the band stay open for more than four hours. Last year the band "Officially Opened" on May 3rd with 5/9 contacts with New York, Tennessee, Ohio, Michigan, Texas, Mississippi, short skip to Alabama, and double hop skip to California within the week.

The "Returns" or confirmations on our QSL card investment revealed exactly 66% as a yearly average. It is about impossible to get a card out of La., Ark., SC, and Ga. The trick we use is to send a self-addressed blank card with stamp, on the second go-around. Order some free QSL cards from the Florida Power and Light Company (See W4MD) or get your local Chamber of Commerce to supply some free to your club. The next trick is to get your cards in the mail that evening, the surprise will shock them into sending you a reply immediately as Florida is notorious for poor QSL sending. I average one Florida QSL per year. With postage 4¢ each, a single band opening can be rather expensive, so get your cards in early if you want a reply.

Keep a complete log on all signals heard. You will soon note that often local signals take a dive when the band is getting ready to open. Most DX signals come through both vertical and horizontal polarized, often times about equal. A well constructed "J" vertical is all you need when the band is open, but you won't hear many locals with horizontal beams unless they are squirting right at you. This might be an advantage when you want to work DX.

The general calling frequency all over Florida is 50.25 mc. 50.4 and 50.5 is still used a lot, with SSB around 50.150 mc. Let's not clutter up 50.25 with SSB as no where in the U.S.A. does anyone else do this. Let's not stay on 50.25 with long rag chews when the band is open to DX, otherwise this frequency will lose its value as a calling channel. Let's look out for the mobiles and give them priority as they are working under considerable limitations. Remember the mobile is ready for emergency service when needed, so let's keep them on the air, and make contact with them when possible.

Next month we start a new column, "WHAT'S NEW ON SIX". We will try to give as many calls both DX and Florida as heard on the air and received in the mail. If you want a "Hon- or Roll" of states worked, merely drop us a card or letter listing your confirmed states and dates witnessed by another

New Electronic Components Shop

Poly-Tronix Sales Company opened June 17, 1966, at 4209 Edgewater Dr., Orlando, Fla. They sell electronic components and parts suitable for light manufacturing, ham operators, and experimenter type people. They have excellent prices for the buyer and stage week-end sales to add to the power of the buyer. Open each evening Monday thru Thursday 5 to 9 p.m., Friday and Saturday 9:00 A.M. to 9:00 P.M. and Sunday 1:30 to 5 p.m.

IT SURE IS A MESS

I wonder if you have ever cranked the receiver down to 20 meters and sort of listened with a birds ear view. Reminds me of a New Years Eve I spent in Times Square, New York some years back. A lot of activity and noise. Everybody doing something with little or no thought or interest in what someone else is doing.

Sure sounds quite different than that afternoon some 35 years ago when they opened up 20 for fone and I tried out my 210 with loop absorption modulation.

Wonder what it will sound like in another 35 years?

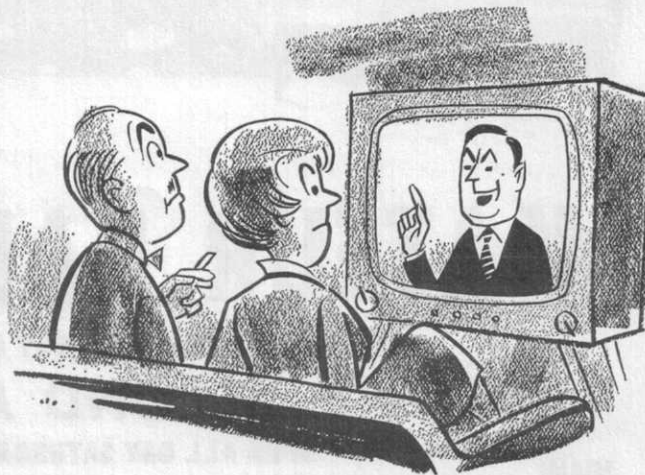
Onyx

Hank K4EVY

Asst. Net Manager

ham, who has studied your QSL cards. Several years ago we run such a list every month and for those interested we will be glad to accept your total under the same conditions above. We will set the minimum at 35 states as we did before. If enough interest prevails, we will see what can be done about WAS 50 MC certificate to start with some minimum of say, 25 states for members of Florida SKIP in good standing.

Susan Item X-ray



Old Man, you watch too much TV. Get out there and check into one of our fine Florida Traffic and emergency nets.

PUBLICATION

In case you haven't received your complimentary copy of the HAM'S MARKET NEWSPAPER, you should. The editor is K4LLP of P.O. Box 13934, Atlanta, Georgia 30324.

The Market Newspaper is run Offset Rotary on news-type paper with 5 columns per page. The last issue had 8 pages. It carries Ham ads (first one free) all others 5¢ a word with a \$1.00 minimum.

Editor K4LLP will carry club announcements, DX news, letters to the editor and about everything SKIP carries.

The subscription rate is \$2.00 per year or \$5.50 for three years. If you haven't received your sample copy drop a line to K4LLP.

Here is wishing the HAM'S MARKET NEWSPAPER the best of luck and may it continue to grow and grow into another excellent national amateur radio publication. — Staff of FLORIDA SKIP

SILENT KEYS

We regret to announce the passing of the following amateurs: Terry Eissen K4MYZ, 21 years old, on July 19th; Robert C. Mitchell, WN4-CRM, who had just obtained his license a month before his death; and Lee P. Davis WA4REH of Port Charlotte, on July 9th. Our deepest sympathies go to the family and friends of the deceased.



WA4DHU, WA4IWO and WA4JYB set up FD west of Miami International Airport near a big lake. They operated under call of K4IWT for the Dade Co. ARPSC group. They were hit hard by a rain-storm and luckily W4AAT, W4IET and W4IYT happened along just in time to pull them out of the lake. Some fun, huh guys? (Photo by SKIP)

MICROPHONE GAME

By Walt Stocks, W4IIS

We were reading the mail recently on a couple of stations checking out microphones, which went something like this:

Okay, Joe, I'm now using No. 1 Mic, which is a carbon type my grandfather gave to me, and was used in World War I. Hello, Hello, 1, 2, 3, 4 — this probably doesn't sound too good, but make a note on the quality. We are now switching over to No. 2 Mic. This Mic is a, let's see, it looks like a dynamic, but I'm not sure. Anyway, it was included in a box of old gear we bought at an auction a few years ago. Hello, hello — it

seems to be modulating okay. Make a note on this one, Joe. Don't know how it sounds, but it sure has a nice finish. Joe, I'm now changing over to No. 3 Mic. It looks like this one is going to top them all. Hello. Joe, this is probably a crystal Mic. That is, it says "Crystal Manufacturing Co." on it. Hello 1, 2, 3, 4 — jot this one down for sure, Joe, as this may be the one. Now over to No. 4 Mic. This Mic is a special purpose mic, and has a two stage transistor amplifier built into the case. I use this on my guitar and it works okay on it. Hello, over.

INTRUDER WATCH

The ARRL Intruder Watch has completed its first full year since reorganization of its operations with several intruders having been removed from the amateur bands as a result. However, much additional work and constant vigilance are necessary.

The Intruder Watch welcomes additional volunteers with two or three years amateur experience and good receiving equipment who can spend at least two hours a week logging the calls of non-amateur stations in the amateur bands.

RTTY operators, especially those with access to sophisticated gear, are still urgently needed. Volunteers please write Intruder Watch, ARRL, Newington Connecticut 06111.

(ARRL OB 47)

Hello, 1, 2, 3, 4 — the needle doesn't seem to be moving too much, but I'm sure it's working. I wonder how this stacks up against the others, Joe. I sure have a fine collection of mics. It's just the problem of finding out which one works best on this rig. So, over to you, Joe, and let's get the glad news. What's that you say, Joe, you want me to repeat the last transmission? You had a long distance land-line call and didn't get any of it? Never mind, Joe, will check these mics some other time. I'm going to buy a new D-104 crystal mic anyway, and all my problems will be solved.

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CLUB NEWS

WEST PALM BEACH

BY JOHN BENAMIN

On the July business meeting night the election of officers was held. Here are the results.

Ted Kohl, W4IXU, was re-elected President. Our new member, Jim Hughes, W4EXO, was elected Vice President. Steve Bacchi, W4RUE, was elected Secretary Treasurer. Ted Caldwell, K4IFQ, is trustee of the Club station, W4HAW.

On the August business meeting the new officers took their appointed jobs.

The West Palm Beach Amateur Radio Club wants to invite any Hams for a sked any Monday or Friday nights. Contact the Club. We are located at 823 Newark St. West Palm Beach. Our call is W4HAW.

Jim Hughes, W4EXO, wants to invite any persons to Morse Code and theory classes at the Club. This will not begin, however, until we have enough members or persons interested.

Are you interested in the Weather? How about tracking those monster of hurricanes? You said yes? Well then, the National Hurricane Center has some real nice Hurricane Tracking Maps covering the entire North Atlantic! Write to them and ask for one.

Well that's about it from West Palm Beach.

See you next month!

VBARC

By Dennis Yantz WA4YFY

Meetings of our club have been generally slow and poorly attended with many away on vacation. We are still discussing and getting everything under way for our RACES plan though. I. J., WA4SCK, our Radio Officer under the plan says all forms are made out and in the hands of the authorities.

Members of the club were very sorry to hear that Grover Gnewuch W4DFZ/9, is not doing too well. He and his XYL moved to their new home near Chicago about a month ago. On the way Grover took sick and was hospitalized for a day. On arriving at Grover's new QTH, both he and his XYL were not in the best of health. We all wish them the best of luck and hope they will be well and around very soon.

Well I suppose the biggest event on the East Coast this month is the Hamfest sponsored by the Platinum Coast Amateur Radio Society. Aside from its being a great time to meet

many of the wonderful amateurs I have worked, the Hamfest will be about the last "big" thing I will do before school starts. BCNU there.

73 Dennis

B.A.R.C.

By Jim Wilson, W4GDK

Feeling that there were many people in Broward County who would like to be hams, the Club voted last month to have a second meeting each month. The extra session would be used for training both in code and theory for the folks who need some help. The first of these meetings is planned for the latter part of September.

Thru our Project Argus we build and supply to blind hams Tone Comparators for tuning their equipment by ear. At the last meeting the Club voted funds to finance some more units. Even more encouraging however was a donation of \$15.00 to the Argus Project by the Coral Reef Radio Club of Miami. We thank you very much and hope that other clubs will be able to share in this way the great good that is accomplished for our sightless ham friends thru Project Argus.

Sunday August 14 will find many of our Club members buzzing around Broward County searching for the "Fox" in the 6 meter hidden transmitter hunt. Ken Nordine, our Communications Officer, will be the Fox. Howard and Doug Smith, who already have two legs on the Trophy hope to be the winners again so they can get permanent possession of the trophy.

B.A.R.C. meets the second Wednesday of each month at the Broward County Medical Association building 2200 So. Andrews Ave., Ft. Lauderdale at 8 P.M. All interested in ham radio are invited.

H.A.R.S. NEWS

By Bill Lynn, K4VAO

At HARS regular monthly meeting of July several items of interest were discussed and the main one being the HARS Hamfest to be held in October at Tampa.

Lawrence Estes, WA4HDJ, our able president brought up the subject of nomination of officers for the coming year. He told all members to start thinking who they wanted to head the club. We feel that careful study in choosing the right people is highly

important to the success of any club. Jim Bingham, W4KRC, reports that he has received several names as candidates for the Outstanding Amateur Award to be presented at the end of this year. He says he is sure there are others also worthy of being on the list and the contest should be quite interesting.

A great deal of time at our meeting was devoted to the preparation of the upcoming hamfest. Such as going over suggestions, naming the different committees, and discussing the prizes, food, shelter, and various other things that go along with putting on a successful hamfest. Emphasis will be made for more room and more comfort for the family.

All the fine details have not been worked out yet but by next month everything should be under control. See you then. 73

WESTERN FLA. NEWS

Frank M. Butler, Jr. W4RKH

Tallahassee: TARC changed its meeting date to the first Wednesday of each month. Cypress: W4KCA moved to new home and is busy building new ham shack. Blountstown: K4NML is back on air, mostly on CW.

Chilpey: W4ZIM received Tech. ticket and is active on 2 meters with HW-30 and 16 element beam 40' up. He is working on a 100-watt rig to go with his converter and R4 receiver. W4IKB has submitted the county RACES Plan for approval. Panama City: W4FJL is first known US ham with permission to operate portable in Italy. K4LQE is active on 75 meters from St. Joe Beach with SBE-33.

Fort Walton/Eglin AFB: The EARS will serve as a QSL bureau for incoming cards for local hams--QSL to Box 1773, Eglin AFB, Fla. 32542. EARS is also conducting code and theory classes on Monday and Thursday, 7-9 PM. W4EUV and W4WAX are on 2-meter RTTY, using AFSK. K1FI/4 is on 146.94 Mc. FM. Summer visitors at W4BVE's shack included W5PKV, K4UBR/5, and K4YJW.

Pensacola: WN4CZG is a new ticket holder. W4DAO had all his ham gear stolen. Gulf Power Co. held ceremony honoring W4FHQ on his retirement.

SUNCOAST ROVING REPORTER

By Cathy Soehl, W4BAV

Howdy folks, your roving reporter is really roving far beyond the Suncoast. Am on a tour of the West, going via the Southern route and returning via the Northern route to Long Island, N.Y. before returning home. Recommend everyone take a trip out West as there are not words or pictures to express its beauty and vastness.

K4FQO, Don Laurent of Sarasota took the "fatal step" in June, having married Robin Pantages of Miami Beach. Congratulations, may they have many years of happy married life.

K4BNE, Rick is doing a fine job with his column "Ham Shack", a weekly feature of the St. Petersburg Independent. A very nice article on the Powder Puff Derby was included in the July 12th article. Rick also offers to accept messages for servicemen not only in Viet Nam but almost anywhere in the world and published a form for the convenience of those wishing to take advantage of his services. Rick is a real ham and a

credit to the fraternity.

The Sarasota Radio Club came up with an idea for their July meeting: run a Swap Table, so members could bring their surplus radio equipment, etc., in for swapping. Though your correspondent could not attend, venture to say it was a huge success and probably brought many to the meeting who otherwise fail to attend. A swap table is usually the most popular place at any radio gathering.

The Suncoast VHF Club held their annual picnic hamfest at Taylor Park, Largo, July 17th. Do not have the details but know all had an enjoyable time and W4BAV was sorry to miss it.

ORLANDO RAMBLINGS

By Hal, W4BKC

Due to the need for more space by the local Chapter of the Red Cross, the O.A.R.C. Club station W4PLB will be moved to the motor pool building about fifty feet north of the main building, as soon as the cubicles are completed. Liaison via two meters will be maintained during the transfer, to assure continuity of communication.

Frank, W4RRD one of our faithful two meter net members has been transferred to Jacksonville, ok best wishes for success go with you, in your new assignment, Frank.

Wes, K4KRG seems to be having good luck getting thru to keep track of things at the home QTH via several of the local hams, and we keep track of Wes thru their periodic reports.

Sure is a big hole they're digging for the City Hall Annex--where our E.O.C. was supposed to be incorporated--sign!

Anyone interested in taking the Radiological Monitoring Course given by the local Civil Defense should contact the office by telephone, 841-1321.

The State C.D. Agency has scheduled a workshop to be held in Orlando September 13, 1966 it will be conducted by a four man team representing C.D., Red Cross, Health and Welfare, regarding the opening of shelters during a natural disaster, and to delineate the area of responsibility of these agencies during an emergency.

Footing for the Shea's tower has been poured, in between rains, with some welding to be done yet, should be ready for an antenna raising party soon.

NOFARS NEWS

By Jesse H. Morris, W4MVB

Summer is here and with it is the usual inactivity. It seems that each year after Field Day everyone takes time off from Amateur Radio to take part in the summer fun.

Speaking of Field Day we have our final score figured out by now. We submitted a total claimed score of 9,092 points. This includes the 500 bonus points. There is, however, one hitch. We lost a log sheet and thus do not have the times and reports of these stations. We did get the calls from the check sheets and submitted them but they will probably not be allowed. If not the total score will be 8,686. We feel that this is still quite a score for two transmitters. We made a total of 1,432 contacts. Of that total 1,022 contacts were made on phone and 410 on CW. Thus ends the saga of the 1966 Field Day.

Our Honduras project is coming along well. We are able to furnish more or less constant communications from there to the doctors up

HAVE YOU JOINED THE



IF NOT, CONTACT YOUR

EMERGENCY COORDINATOR TODAY

here in Florida. A recent doctor to spend some time down there was Dr. Alex Mitchell, W8SJA. Dr. Mitchell was able to keep in touch with his family and friends in Kansas while he was down there. The Station is currently being operated by Miss Elizabeth Westbury from Jacksonville. Elizabeth is a Registered Nurse and is filling in for the regular nurse who is home in the states recovering from a back injury.

That is about all the news for this month. Since this is being written in Portsmouth, Va. I am not in touch with the latest news of the club. For that reason I will probably skip this column next month unless something important comes up. 73 for now and good luck to all.

DE W4MVB

NOMARC

By Mel, WA4NHT

Movies, movies, movies that's what we will have. Plenty of good technical stuff will be shown weekly alternating between Wednesday and Thursday nights. Of course there will be lectures thrown in here and there to break up the montony, hi. The club started a course to help people desiring to be hams to get their Novice tickets. Classes are on Wednesday at 8 P.M. If anyone knows of some one interested in this class, they can contact Smitty, K4KRN for details. Classes will naturally progress and hope that all will get their general tickets. Brian, WA4VZW and Glynn, WA4LHK are instructors. Both have had previous experience in teaching.

Plans are being made at this writing to get club shirts for all the members. So pretty soon you will be seeing some real snazzy looking Amateurs proudly showing off around town. We just got word from Sheldon WB4AJC who is with the Air Force in Lackland Field, Tex. The ham ticket is helping him get situated in communications. Good luck, Sheldon we don't know who we can get to climb trees on Field Day now that you left.

Again I would like to invite everyone down to our clubhouse on Wednesday and Thursday evenings. Business meetings are on the 2nd and 4th Thursday with some or I should say plenty of discussion thrown in. The place is in the basement of the North Miami City Hall. A real cool place with plenty of air conditioning and the coffee pot is always hot. Everyone is welcome at meeting nights so come on down for a visit and say "Howdy" to the fellows and gals.

SUNCOAST VHF CLUB

By Nancy WA4EDL

It is with much sorrow that we announce that Jim K4IYN is again in Bay Pines Hospital. I think this is Jim's 12th heart attack in the last couple years. We all are pulling for his recovery and are proud of the good fight Jim's giving that stubborn ole ticker. K4LYS mother and WA4ZRX Don have had a bout in the hospital too this past month. Hopethat's the last of the gangs illnesses.

The boat races were held August 20 and 21st instead of the 13-14. Our thanks to the gang helping to bring the Public Service Corps part of Hamdom to the publics eye. We'll be on the job for the Southland Sweepstakes Regatta too. That's February.

Our thanks to Walter Patterson of The Florida Power Corporation for the excellent talk on line noise and proper grounding. Come to the meet-



Jack and John Dulin WA4EKY - WA4GKF operating their neat stations in Miami Springs. Jack leaves for the U.S. Navy shortly, while John holds down the 4 rigs plus RTTY on MARS. John is a retired Major from the Army and is active on Florida Two Army MARS nightly. Note coax-audio patch panel designed by John who does all the fancy "stuff" at Channel 4 - WTVJ in Miami.

(Photo by K4JWM)

ing next month and see what the program will be. Each program planned for a half to three-quarters of an hour and then meeting closes and all go for coffee, etc. So join us, all welcome.

Those who missed the August talk by W4DH missed a very good talk on converters and missed getting a look at a very neatly made converter. Thank you Les, for the talk and the slides of the past hamfest.

Want to welcome WA4FEO Barney and family home from their extended vacation. Sure they had a good time and anxious to hear all about it.

W4PWB and K4CSC Walt and Edna will soon be leaving on their tour of Europe and the Mediterranean. Square Dancing all the way, should say Calling, wish I could be a mouse in a suitcase and go along, know it will be fun.

See y'all next month. 73

FLORIDORA NEWS

By W4BAV - Cathy Soehl

W4IUR, Mims and K4VNA, Walt celebrated their 23rd anniversary July 10, and W4WPD, Shirley, W4VFR, Earl; WA4MHR, Burt and XYL Dot; W4GHR, Bill and W4BAV, Cathy spent the weekend in Daytona Beach to help them celebrate. A fine time was had by all. WA4MHR and his XYL made a trip down the East coast and

over to Ft. Myers before returning to St. Pete.

K4RHL, Ellie was happy to see her girls come in 4th place in the Powder Puff Derby. Her grandchildren flew from Calif. to Clearwater and were with Ellis when their mother arrived. K4WXS, Lee was on hand in Clearwater, helping other hams handle the watch for the Derby gals. She gave a very nice report at the SPARC meeting in July.

W4BAV worked WA0KQY, Joe from Iowa, June 14th on 6 meters. As he promised, he stopped with his wife and daughter when they vacationed in Florida.

W4EHN, Betty left in July for vacation in Michigan and will be missing from the Floridora Net until fall.

W4BAV and W4GHR are enjoying a tour of the West. Left July 19th and in one week had covered 10 states and saw many wonderful sights. More details will be forthcoming on the tour report, hi! Cathy did work the Floridoras the first day out on OM's SR-3 mobile.

WA4EDL, Nancy and family will be vacationing in Texas. Believe me, if you take a trip thru Texas it is understandable why they say "everything is big in Texas."

As your Floridora correspondent is travelling far and wide, have been unable to keep up with the Floridora activities. However, hope everyone is having a wonderful summer. See ya'll soon. 73's Cathy.

FLAMINGO NET NEWS

By W4EDP

Well, the Gold Coast Marathon has come and gone another year and the Flamingo Net was in it up to its scrawny neck again. We covered the race course all the way up to Pompano Beach on both days, and on Saturday we also tried to cover West Palm Beach. One thing after another plagued us and the W.P.B. coverage never did materialize. But we tried! To list all those that participated would amount to publishing a roster of the net, but we do want to mention that Ted K4ONY and Roy W4TIO who are not net members did a fine job of helping us out. We appreciate their assistance.

On July 31 we held another of our xmitter hunts. W4EDP was the hidden transmitter and had a beautiful hiding place all picked out and was nicely hidden at the starting time of the hunt when who showed up but the law and passed on the unwelcome news that he was on private property, although it was not posted as such, and would have to move. So everything came to a screeching halt and a new hiding place was located pronto. Turned out to be a pretty good place at that as it took quite a while for SWL John to find the hidden location even though the mobile rig was not even really hidden, but parked on a rather lonely side road in S. Miami.

The old ten meter band is opening up quite regularly these days. So when you fire up for a lil rag chewin' take a listen on ten, it may surprise you. If you have something better to do on Friday evening at 7 PM don't do it, but check into the Flamingo Net on 29.044 Mhz instead, and meet a fine bunch of folks.

73

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The Central Florida ATV group have not made any earth shattering advances during the past month. Dave Hall, W4TOD and Jim Leavy W4PAO, have been working on their audio carriers on 440 mhz, Dave has his sub-carrier system working quite well, Jim reports that he still has some tweaking to do.

Jack Rose K4NTD, of Oakland, Florida 20 miles west of Orlando, has been airing test patterns and has been putting in about a 40-60 picture-noise (snow) ratio figures have come into use, for instance a 70-30 report would indicate a 70% picture, 30% snow, along with the other useful information pertaining to contrast, focus, sync, etc. Most signals in the greater Orlando area are running 90-10 to 100-0, depending on antenna systems, converters and boosters.

Ken Denman K4NTB, a very fine quad builder, built one for 440 mhz, completely non-metal, except for the wire elements, and by adjusting his home TV's UHF converter down so that it would tune below channel 4 he is able to receive the local gang, Ken reports the quad is extremely sharp, and a couple of degrees rotation completely washes out the reception of the incoming station.

To further clarify the exact location of the ATV activity, we are in the 420-450 mhz band, the top end of channel 13 on your TV set is 216 mhz, the low end of channel 14 is 470 mhz, as can be seen, it may be possible to drop a commercial UHF converter or TV tuner down in freq. enough to reach the ham TV frequencies.

We found that most of the commercial UHF converters dropped very easily by either the addition of a small capacitance, about 1 picofarad across the tuning lines, or by the simple mechanical adjustment to allow lower tuning capabilities, it is always best to have a signal source, such as a dipper that will reach the freq to adjust to. The commercial converters give the best results when worked into either channel 3 or 4 on standard TV sets, and can be further improved by peaking the RF and IF adjustments to incoming signals from ATV stations.

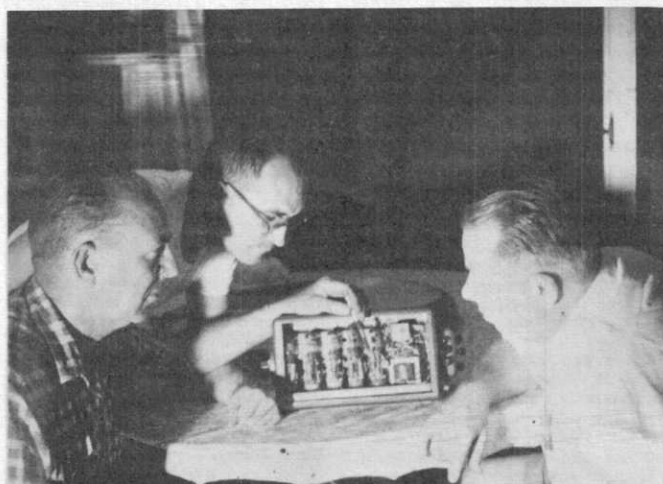
The commercial converters should become more readily available on the used market as more and more newer TV sets are bought, the FCC now requiring all new TV sets to

AMATEUR TV

have UHF capabilities built in.

A signal booster either commercial or home-brew has proved very valuable for serious ATV reception, as the max pwr. in-put is 50 watts, the co-ax loss at these frequencies, and types of antennas and re-

ceived a lot of fine UHF construction experience, and gave a better insight into the UHF construction practices, I found it to be quite different from my LF construction practices. Performance of this pre-amp proved to be more than expect-



Ace WB4AKJ, discusses a possible camera modification with Monty K4VFF and Dave W4TOD. (Photo By Jim W4PAO)



Jim, W4PAO, during the two way with Dave W4TOD, note snow free quality. (Photo By John K4JZT)

ceivers, the final signals put on the air, at times, require some build-up in strength, to be useful and enjoyable.

I constructed a pre-amplifier or booster, using a 416B tube, this was built from an article in the October 1964 issue of "73", written by Jim Kennedy K6MIO. This pre-amp provid-

ed, improving the incoming ATV signal 40 to 50%.

Both Jim PAO and Dave TOD, are using Blouner Tounge Boosters that are listed as a sale item by Allied Radio, these boosters are giving excellent service and results, and a very good buy also.

Other new ATV enthusiasts in

Hank Roth

AMATEUR OF THE MONTH

Biographical Sketch: Age: 29, Married 10 years, 3 children; I served 8 years in the Army--stationed at: Ft. Monmouth, N.-H., the White House, the Pentagon, and Orleans France---while in Washington operated the official White House Army Signal Agency Amateur Radio Station, W3WTE---have also spent time at the controls of K2USA and K4USA.

Military Occupational Speciality was Micro-wave and Voice Security Crypto---Have been a licensed ham since 1955.

Have held the following civilian occupations: Photographer, Camera Salesman, Boat Refinisher, Product Salesman, Tree Salesman (wholesale and retail, Citrus trees), Fruit Shipping, a Driver for a Real Estate Development Company, Real Estate Salesman, Builder, Land Developer.

the greater Orlando area are, Ace Brown WB4AKJ, who is working on his TV station, already having the receiving capabilities, and giving signal reports from the Altamonte Springs area, about 6 air miles north of Orlando, and John Bos-iver K4JZT, of Orlando, who recently obtained Ace's old camera and is modifying it to meet his requirements.

Dave Hall W4TOD is very interested in having some type of an all Florida ATV league or association, one that would have no officers or dues, but one where ideas, projects, and other items of ATV interest could be distributed easily, we would like to hear from our readers, their ideas, problems with ATV, or comments pertaining to such an organization, just drop either Dave or myself a line (were ok in the call book) and let's become better acquainted.

73's
Monty K4VFF



TRAFFIC BUSINESS

By Gary WA4PDM

Help Needed

The question was recently raised to mind about the essence of message handling and its real meaning. Today the statement was made to me that "we are in the traffic business" in relation to my servicing a (routine) radiogram for which no no phone number existed.

A major question was thus brought to mind as to what was the basic reason for traffic handling and my obligations or duties. This particular operator always considered himself as an Amateur performing a public service. The words are believed to infer a non-commercial voluntary function. This is definitely not a business then, so what is it?

Message handling, from this point of view, is in preparation for an emergency, relieving overburdened or non functioning military and commercial circuits, etc. Now let us examine this function more carefully. If a person could mail a letter which reaches its destination at the same time or before a radiogram the only thing that was proven was an inadequacy of that particular circuit at that moment. One of the best ways of delaying a message is to mail it. This guarantees one to two days lost, or enough time for a letter to arrive here from N.Y. or Calif. The next question is what to do if there isn't a phone number included nor listed. In a real disaster or emergency delivery would be

justified by hand. How about the stateside "Darling I miss you", or ARL 50 "will write soon", that must be mailed? Wouldn't it be better to service this superfluous traffic? Who knows, some operator may learn to require telephone numbers before origination and thus more efficient operation would result, instead of time spent looking at directories, calling information, and finally having to mail something that should have been mailed before. Efficiency of circuitry, not just delivery should be our goal.

ARRL OB63

As a result of studies and recommendations by the Amateur Radio Service Subcommittee of the National Industry Advisory Committee, FCC on May 26 issued public notice approving all outstanding RACES plans as interim plans for the Amateur Radio Service. To that end, state and local civil defense directors should submit two copies of present RACES plans to their regional director, Office of Civil Defense, not later than Aug. 1, 1966, for transmittal to NIAC. Others are also requested to submit requirements for amateur emergency communications services to the Executive Secretary, NIAC, FCC, Washington, D.C. by Aug. 1, 1966. July QST ARPSC will have full details.

This is a general SOS for Emergency Coordinators in the following Eastern Florida Section counties: Baker, Charlotte, Citrus, Columbia, Flagler, Gilchrist, Sarasota, Sumter, Suwannee and Union.

We know for a fact there are many darn good amateurs in the above counties who could do a good job as EC. The big problem is, they are sitting back waiting for someone ELSE to take over the job. Come on now, you guys, break loose, get in there and DO SOMETHING for amateur radio.

Requirements? 1. You must be an ARRL member. (You may order all the AREC supplies from the League at no cost whatsoever). 2. You must hold a Conditional license or better. (We understand that may be changed to a lower grade of license.) 3. You must have a desire to set-up some type of

AREC plan within your county. Your AREC members DO NOT have to be ARRL members, which most amateurs seem to believe.

Can you meet these simple requirements? Do you live in any of the above vacant -EC counties? Then stand up and be counted. Join the Georges. Get active in Public Service - like the book says. If you do not meet the above requirements and know someone who does - how about buggin' him or her (yes, we welcome lady ec's) into contacting the E or W Florida SECs listed on page two. W4MLE in W. Fla. and W4IYT in E. section.

In case the above doesn't sell you, we'd like to suggest you read How to Join the AREC by W1NJM on page 63 of the July QST. If that doesn't, nothing will..... Oh yes, read page 62 and be proud.



Put yourself in the above picture for less than half of the original cost. Yes, you read right. Present circumstances require that I dispose of this complete Hallicrafters 2 KW ssb, am, cw station at a drastically low price.

While using this rig, I have worked over 150 different countries in obtaining my DXCC, WAC, WAS, and GUAM Certificates. Here is a listing of all that you would ever need for a complete station.

- Hallicrafters HT 32A Transmitter
- Hallicrafters HT 33B TWO KW Linear Amplifier
- Hallicrafters SX 115 Three conversion receiver
- Hallicrafters Matching speaker
- Heath Kit Model HO-10 Monitor Scope
- Knight SWR Power meter
- TR 44 Rotator and Indicator
- One hundred and twenty (120) feet RG 8 U Coax
- One hundred and twenty (120) feet 8 conductor rotator cable
- Hy-Gain TH-4 Thunderbird beam
- Johnson phone patch
- Johnson low pass filter
- EZ Way 60' crank up tilt over tower
- EZ Way 18' ground post
- Fluorescent desk lamp
- Desk, Heavy Duty 6' by 3' glass covered top
- Three (3) drow key relays external contact
- Turner 454 mike with Shure crystal
- Desk calendar
- CW Key
- Electronics Measurement Corporation VTM Meter

My Cost
\$3,381.40

Yours For \$1665.70

This station is on the air for your inspection. Financing can be arranged. Call Neil L. Bartley, K4REC, for appointment at Miami, Florida 1-305-444-6205 or 226-3023.

FIELD DAY SCORES

Here are the latest Field Day scores as we have them:
Seven transmitters;

Gainesville Amateur Radio Society 8582

Four transmitters:

Eglin Amateur Radio Society 4950

Broward Amateur Radio Club 4591

Three transmitters:

Panama City ARC 3867

Dade Radio Club 3426

Two transmitters:

North Fla. Amateur Radio Society 9092

Sarasota Amateur Radio Assn. 6618

Ft. Myers Amateur Radio Club 6030

One transmitter:

Beaches Amateur Radio Society 5397

Pensacola Amateur Radio Club 2238

Dade County ARPSC 1530

W4WHK/4 1386

Also participating but not yet heard from are: Carol City, Orlando ARC, West Palm Beach ARC, Homestead ARC, North Miami ARC, South Miami ARC, Tyndall ARC, and Milton ARC. Whats say fellas-give.

A CLOSE SQUEAK

By Jim Wilson, W4GDK

While completing six phone patches in Florida for men on the Navy ship U.S. General Arnold off the coast of Brazil, Jim Wilson W4GDK of Ft. Lauderdale received a call from HK1ZU in Barranquillos, Colombia.

When Jim got to the HK station he found there was a critical problem. Herman, one of the operators of HK1ZU was planning to fly to Miami the next day bringing a very sick little boy, two months old, to the Children's Hospital in Miami to determine what was wrong with him. He had to know, however, whether Doctor M. in Miami had been able to arrange for hospitalization for the boy.

Getting Dr. M. on the phone after a 1/2 hour hectic search by the phone operator, Jim patched him through to Herman. They talked rapidly in Spanish and it was thought that all had been arranged.

Not so, however. About two hours later Dr. M. phoned Jim and quite innocently asked him to tell Herman he would need full medical information about the boy and assurance that he was not bringing in some communicable disease, or hospitalization would be very difficult.

What would you do in a case like that? How would you reach Herman for sure before he left for Miami? Jim wondered. He told Dr. M. he would do the best he could.

Repeated calls for Colombia accomplished nothing, but finally YV1BA-Al in Maricaoibo called and after he had heard the problem he offered to go on 80 and try to get thru to Colombia with the urgent message. Jim said he would be on 14295KC at 9, 10 and 11 the next morning hoping for a reply.

At none of these times did anyone appear but at 1115 Jim raised Angel, YV1QV who offered to help get the emergency message into Colombia. He said he often worked HK1ZU on a 40 meter net which was due to meet in about an hour. He asked Jim to continue monitoring. He frequently had to talk in Spanish to someone in the room to get some necessary English word. When Jim spoke a few Spanish words Angel was delighted and asked that the conversation be continued in Spanish. Jim regretfully admitted these were about the only Spanish words he knew. Angel

signed and as Jim waited patiently thru 12 o'clock, and 1 o'clock a stateside net controlled by a station in Alaska came on the frequency and Jim hoped they wouldn't drown out the call if it came because probably the plane was already leaving Colombia with the child aboard.

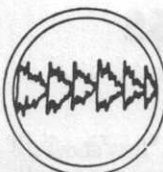
One thirty passed - no call. At one forty Jim jerked to attention as right on frequency he heard, "W4GDK this is HK1ZU. Do you have an emergency message for me, Jim?" Here was proof that the YV boys had gotten thru to him.

Jim's answer was prompt. This was Raphael, another operator. He tried to get Herman on the land line while Jim asked the cooperation of the net in progress. They cooperated by all turning their beams away from Florida and being very brief.

Unable to find Herman, Raphael took the name of the little boy's father to call. Finally after phoning several people he came back with the big scoop. The boy had already left for Miami on Aerocondor. Bringing him were his father AND his attending physician. They would arrive in less than four hours.

This was excellent news. Raphael was thanked sincerely and invited to come to see Jim on his next visit to Miami.

This news was promptly phoned to Dr. M. in Miami who



The Florida Side Banders Association

By Bill Blasingame WA4NEV

By now I am sure all of you realize "the baptism under fire" that the new officers got their first time out. Conditions on the first Sunday in July were about as bad as I have ever seen. However, W4MVB took it in his stride and did a commendable job.

It was a long hard battle, but W4LUP finally made PEP for his first time out. W4IAD also made the top of the ladder.

July seemed to be a bonus month for new members. On July 10th Mr. Royal W. Orton of Ft. Lauderdale was certified as member number 269. Then July 17th Mr. John O. Williams, K4ANJ was re-certified as member number 47 and made a Life Member. Mr. James Bingham, W4KRC, member number 131 was also made a Life Member. Then the President certified Mr. Roger C. Elliott of Sebring as member number 270.

said he would be at the airport to meet them. He was very grateful for the help ham radio had been to him.

A little boy from Colombia had the hand of International Friendship extended to him by hams of several countries. We all hope our efforts will help medical science bring him back to health.

On July 24th Mr. Paul E. Gieselmann of Vero Beach and Mr. Russell DePew of St. Cloud were certified as number 271 and 272 respectively. Finally on July 31, our esteemed Vice-President, W4FP had the honor of certifying Mr. William Setcliffe of Port Charlotte as member number 273 and Mr. Eyrl Browder of Union Park as member number 274.

We are certainly happy to see so many new members come in the association. This is what we need to continue our growth.

A combination of business and school will take our President, W4MVB away for six or seven weeks. However, we do hear him on 3940kc. from time to time. We certainly wish him well and will look forward to his return.

I seem to have run out of time and news for now, so I hope to see all of you here next month. 73's and good luck.

DE WA4NEV

VOTE INTELLIGENTLY

1. Do you know what a Section Communications Manager (SCM) is?
2. Do you know WHO your SCM is?
3. If you ARE an ARRL member it IS important to YOU to find out if you do not already know.
4. If you ARE NOT an ARRL member why not find out anyway. The SCM is a good source of activity information and, who knows, some day you may BECOME a member.
5. The SCM term of office (2 years) will end soon. Headquarters will request nominations some time in September.
6. If you must answer questions (1) and (2) in the negative how can you possibly know how to vote at election time?
7. If you are NOT satisfied with the performance of your present SCM then, by all means, cast around for a suitable candidate and get him nominated.
8. If you ARE satisfied with your present SCM then be prepared to DEFINITELY cast your vote for him.
9. Briefly, the duties and responsibilities of the SCM are outlined in the ARRL booklet "Operating an Amateur Radio Station" obtainable from A.R.-R.L. on request.



Dave Hayden W4WHK/4 operated FD by himself (one operator, that is) from a fishing pier near his home in Orange Park. Dave had generator troubles but fought it through to the end and collected 1386 points. Dave is our 160 meter editor, Contest Chairman and EC for Clay County. Good show Dave!



Letters To Editor

Dear Andy:

Your letter and the sample copy of the Florida SKIP arrived on the last plane. With the information on frequencies, times and calls obtained from both, I don't think it is necessary to have regular skeds set up. There are four hams here at the present time and we all work erratic shift work, making it difficult to keep regular schedules.

We are looking mostly for fone patches into Miami, Andy. Sometimes just a fone call would do. This can be handled via CW or any other mode. Our mail comes from Miami by plane twice a week, when weather permits. Sometimes the plane cannot leave the island due to weather or mechanical troubles. In this case if a letter needs to be answered without delay, we could do it by ham radio. There are times when a person gets moody and wants to talk to his family. This when a fone patch would be a big morale booster.

I have been on SWAN island for over three years now. The oldtimers say that there was no ham activity here for five years or more. That FAA man, Vosbrink may be able to tell you why. On the 30th of November 1965 we made our first QSO using the K4JFA/KS4 call. The active calls now are KS4CA and KH6BCB/KS4. We work all bands. I have been on 20 CW for about a half hour each day at 1735 EST. The rig is a Galaxy V.

We appreciate the help offered and will write to you if anything new comes up. Thank you and 73...

Jim TAKAKI
KH6BCB/KS4

Editor, Florida Skip:

The members of the Lake Amateur Radio Ass'n. (near Leesburg, Fla.) has been putting on a concerted effort recently to teach and encourage our members to advance themselves in amateur radio.

One of the things we have been doing is to "de-brief" each member as soon as he takes his FCC exam and make tape recordings while his memory is very fresh as to the questions given on the General and the Extra Class exams.

For the members we have drawn up a list of over 400 questions and

answers, typed in the form that the FCC exams are given, with multiple choice of answers. Not counting the many, many hours of transcribing and stencil-cutting that various members did, the cost of printing these came to about \$2.50 each--for the questions and answers complete for both classes of examination.

For your information, after the members buy their copies at \$2.50 each set the balance (about 20 copies) will be available to whatever radio amateur wishes them.

If anybody wants to buy these sets have them contact Tiny Smith, W4BP 1270 Sheridan Road, Mount Dora, Fla. Please submit the check or money order for \$2.50, and if they are all sold before we satisfy the demand we will return their checks.

It is not a money making proposition--but we hope to break even on it.

Sincerely,
Reid O. Martin
W4VDY
Rt. #1 - Box 134-B
Tavares, Florida

Editor, FLORIDA SKIP

Thank you very much for your, FLORIDA SKIP AWARD, in connection with Traffic handling during tornado which hit Tampa Area, April 8th.

I am quite appreciative of this honor. However, I would like to mention that there were many Florida Amateurs, that did meritorious service, during the recent emergency.

Again, thank you for the FLORIDA SKIP AWARD, and may you and your staff, keep up the fine job you are doing.

73
L. A. "Cy" Connolly
W4DVO--O.R.S.--AREC

Editor, Florida SKIP:

Yes Sir! Incentive! Yep, that sure is a wonderful thought.

I wonder how many incentive-minded HAMS and SWL's in South Eastern Florida have been able to copy W1AW code practice sessions thru the QRM and LIDS who insist upon trying their fists along with W1AW (on the air).

I have a very good receiver, by amateur standards, but it is just about impossible to separate W1AW from

(Continued on Page 13)

TOP TWENTY TRAFFIC TAKERS

Each month we are happy to list the top 20 Florida traffic takers. We hope to see your call here next month. For July 1966:

1. WA4SCK	BPL	581	11. W4LUV	118
2. W4TUB	BPL	541	12. WA4RQR	115
3. WA4NEV	BPL	430	13. WA4EOQ	101
4. WB4AIW		387	14. WA4FGH	90
5. K4EVY	BPL	347	15. K4BNE	82
6. WA4BMC	BPL	255	16. WB4AJV	79
7. W4FPC		179	17. K4BSS	77
8. W4DFU		159	18. WA4DEL	71
9. WA4PDM	BPL	158	19. W4EHV	71
10. K4VFF		154	20. K4BY	70

E. FLA NOTE: Total of 5279 QTC reported by 71 stations out of a possible total of 180 reporting stations. Good?????

Dear Mabel Award

To the ladies, God Bless 'em...where would we be without them? They're expensive, exasperating and entertaining, especially when they don't mean to be. Fragile little things in two-inch heels bounce in humming with excitement after a 10 mile hike through the stores. An afternoon at a sentimental movie exhausts them.

Armed with only twisted feminine logic they tackle anyone from a school principal to a highway patrolman and emerge triumphant and smiling. They burst into tears if the cake icing comes out the wrong shade of pink.

They're afraid of grasshoppers but very brave about their own driving. They give a party for twenty teen-agers without batting an eyelash but a crooked picture makes them nervous.

They join clubs to better the world and during the lectures they study each other's hats. They tell you all of your faults and feel sorry for the girls who didn't get you.

They want to go out when you want to stay home, they're ready to go home when you are all set to make a night of it. They don't like to iron, they make faces when they brush their teeth and although they would like to own every electrical appliance invented, they're all afraid of electricity.

Which brings us to this: don't try to understand them, just love 'em. One way to show your XYL that you harbor a tender feeling or two for her is to give her one of our FLORIDA SKIP XYL AWARDS. The certificate is a little something our "Dear Mabel" dreamed up so you know what to expect. Not only will it make a happy surprise for your deserving XYL, it will look impressive hanging in the shack or kitchen. This is an award for all wives, they don't need a license from FCC, just a marriage license. Tell your friends. The certificate is free but beautiful!

All OM's are urged to get their nomination to FLORIDA SKIP P.O. Box 501, Miami Springs, Fla. 33166 today. Get a real surprise to make the little lady delightfully happy!

TAMPA HAMFEST

SUNDAY, OCTOBER 16

9:00 A. M. - 4:00 P. M.

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(Each additional Meal Ticket 25¢)

1:30 - 4:00 Drawing

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Hurricanes and Tropical Disturbances

By Lt. Col. James R. Hughes
W4EXO Formerly KP4APY &
NCS of the Antilles Emergency
Weather Net.

By definition, a hurricane is a thermal, convective cyclonic circulation of great intensity. This sounds rather formidable but broken down into simpler terms we gain a better understanding of the phenomenon.

Thermal means heat and heat means energy. The vast energy necessary to create and maintain a hurricane comes from the latent heat liberated by the cooling-condensation process of vast amounts of water vapor.

Convective refers to the vertical movements, in this case, of masses of air. It is the same principle which in liquids which is heated in a boiler, the warmest portions being lighter i.e. having greater molecular activity, rise to the top of the tank and the cooler heavier portions fall to the bottom.

Cyclonic circulation, in the meteorological sense, means associated with a low pressure system, as opposed to anti-cyclonic or high pressure system. The pattern is counter clockwise and directed towards the center in a cyclonic circulation, in the Northern Hemisphere. These directions are reversed in the Southern Hemisphere.

The initial formation of the hurricane takes place slowly in a region of light variable winds, lower pressure and generally unstable surface and upper atmospheric conditions. Cyclonic circulation in the convectively unsettled area occurs usually after a period of several days, the slow inflow of air into the disturbance at all levels preventing the appearance of any well defined low pressure center or circulation. Once the cyclonic sense has been established, however, the inflow is

restricted to the surface layer. Thus the warmest and most humid air feeds the convection from below just as a stoker feeds a furnace.

(Continued Next Issue)

QFN REPORT



BY
BOB
BLUMBERG

Activity on QFN appears to be picking up somewhat, however, the number of those checking in at each session varies greatly. QFN needs everyone. The slow speed QFN beginning in October on 3651 khz on Monday, Wednesday and Friday at 1930 EST affords an excellent opportunity to become acquainted with cw traffic procedures. If you feel that since your antenna is cut for the phone band it won't work to well on QFN, you can easily remedy the situation by adding removable clips with 3 feet of wire attached to it on each end.

For further practice, another slow speed net has begun in the Alachua County area on 3799 khz on Mondays at 2030 EST. An antenna cut for the phone band should work fairly well on this frequency with no modification.

QFN is most happy to welcome two newcomers: K4IEX/4 in Orlando and W4FXH in Cocoa. Glad to have them aboard. Also happy over the return of W4ILE. Any station in Florida is welcome on QFN and we hope that more public-service minded amateurs will take this opportunity to join the ranks of QFN on 3651 khz at 1830 and 2200 EST daily.

ARPSC NET TOTALS

NET	QNI	QTC	SESSIONS	AVG TFC
FAST	898	162	26	6.2
GATOR	265	177	31	5.7
WPTN	374	204	31	6.6
FPTN	466	249	26	9.6
FMTN	479	248	26	9.5
TPTN	539	338	26	13.0
QFN	764	433	62	6.9
RATT	95	52	31 (July)	1.7
RATT	151	45	30 (June)	1.5
SATN	375	218	19	11.5

(This net recently started and seems to be doing quite well with WA4RQR/K4EVY in the drivers seat).

12 FLORIDA SKIP, September 1966

VHF EASTERN FLORIDA

Bertha Farr Eggert, WA4BMC

A great emptiness of letters from VHF'ers occurred this month. In fact, I received none. I did get a call, long distance from WA4FZV/WA4MKE, the Assistant VHF-PAMS from Dade County. They pass along the information that if anyone is interested in a Traffic Net on six meters, please get in touch with Tandy, K4YSN. It is important that you do this, because the six meter traffic net will not get going again, unless you, who are interested insist. Listen for RTTY from the Dade County area on two and six meters from Al, WA4FZV.

On the air, Tom, W4FP, Assistant, PAM-POLK County area, tells me that on six meters, 50.4, on Wednesday nights, at 8 PM, est., there are 30 to 40 stations, operating on a RACES and then an ARPSC net, with K4EBE, Assistant EC of Polk County as NCS, or K4EBO, Lucky. I do wish each of these stations would drop me a line, giving me a resume of their activities and of their equipment.

George, K4ENW, of Eau Gallie, will be on Two meters soon. We will be so very glad to hear you there, George. You will be a great addition to two meters.

Listen for the Martin County net at 8 P.M, est., with WA4-IHH as NCS. They have started up operations again in September. Bill puts a good signal in on Two meters, and you should have no trouble copying him.

Our own Palm Beach County ARPSC net is perking right along and Slim will be handling NCS job, with WA4RQR, Bill, our EC of this county, helping him, and yours truly, WA4BMC, also aiding in NCS job, on Wednesday nights, at 8:30 PM, est., on 145.350. This is also the frequency for the Martin County net.

All you on VHF, who handle any traffic at all, even if it is only one or two pieces a month, please send a report to Ham, K4SJH. You do not need to be a member of ARRL, and it is to help Amateur Radio, that we ask you to do this. Our very existence depends on our public service. If there are 100 stations in East Florida who handle only 1 or 2 pieces of traffic a month, and you all sent a report to your SCM, that would mean an increase in our total traffic for the month of between 100 and 200. Think of this, when you say, "Oh, I only handled 1 piece of traffic this month. Why report?" Now you can see why your total does count. His name is Albert Hamel, K4SJH and his address is 220 N. E. 25th Street, Pompano Beach, Fla. zip 33064. Just tell him, by radiogram or post card, how many pieces of traffic you originated at your station, how many you received via radio, how many you delivered, via radio, or delivered in some other way, and total it up.

September is the month for hurricanes. Let's keep our fingers crossed that one of those gals doesn't visit us, but, if one does, let's be prepared to do all we can to help VHF. That's what we are training for, you know, each week, on our ARPSC Nets.

Until next month, when I will be back here, this way, keep on sending me reports, send your traffic totals to your SCM, K4SJH, check into your local VHF nets, and, don't forget the Relay All Florida Contest. How many new counties in Florida you worked, via a message, on 10, 6, or 2 meters, in the last year? If you want any information on this fascinating contest, just drop me a note. I have all the scoops on it for you.

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ARMY MARS

By AD4VWY (Will)

AA4KHT, Gene Farthing, the newly-appointed District Director for Florida 2, announced the following assignments for the year ending June 30, 1967: AD4ESL, assistant director; also emergency coordinator; AD4IHH, VHF coordinator; A4ZXI, technical coordinator; A4DRD, procedure officer, all modes; Matn; AD4VWY, publicity officer/Bulletin; AA4EBG, activities coordinator; AA4GUE, net manager; AA4KHT, supply officer, east coast; and, AA4GUE, supply officer, west coast.

AA4JJZ, Bob Woodruff, was praised throughout the area after concluding a very successful two-year term as District Director of Florida 2.

A3ECP, Col. Edwin S. Van Deusen, SMD, Maryland, re-

turned to D.C. from a visit to Atlanta and informed this writer he regrets having missed seeing his friend Wade Nelms, A4ZNY, Deputy Army Mars Director.

The high-speed c.w. net meets Saturdays on 4025 kc at 1500Z under the capable direction of AA4KHT. Proficiency-Certificate qualifying tapes at 30, 40, 50 and 60 wpm are announced from time to time. All Florida MARS members are eligible and invited to participate. The engraved certificate awarded successful members is a beauty.

A4DVR, who suffered a slipped disc and now housed in a steel brace, visited AL4AHR recently.

AD4TZI and XYL celebrated their 49th anniversary in July.

A4BWR, Ruth Nissen, was the recipient of Certificates of Merit from Chief, Navy (I) Mars for having submitted perfect copies of radioteletypewriter at sixty words per minute and C.W. at twenty-five words per minute, of messages from the Secretary of Defense on Armed Forces Day.

A4GJT, Rev. Gail Norris, a new Fla. 2 member, and mistaken for an XYL by top brass, made his "maiden" check-in at the station of AD4VWY July 28th.

AA4RRC, Leo, reported that

LETTERS (From Page 1)

the RTTY, VE3 phone stations, and a host of Spanish-speaking stations.

In my locality the QRM from RTTY at 14.1 MHz is particularly severe.

The schedules of WIAW code practice sessions are well known or can be easily ascertained. In all decency, every effort should be made to keep the WIAW frequencies clear of QRM.

Gene Schroeder
K4ZYA, Pompano Beach

Editor FS:

Greetings from Czechoslovakia. This letter I confirming received your XYL Award nr. 722 on 8/V/1966. Very thanks, I am glad so receive.

I beg pardon, here impossible order your good magazine subscription rates. Here not \$ in Czechoslovakia, IRC and SASE here no impose buy not! I am very sorry.

QSP my 73 to all members your magazine, your XYL 88. Good hunting DX QSO. With best wishes good luck in radio amateurs.

73 & 88
Toni Helomova xyl OK7AEH
Praha

his XYL was very sick.

AA4KHT, Gene, has a "bug." Send him DDT!

Special Regs. No. 105-75-1, Dept. of the Army dated Nov. 26, 1948, activated The Military Amateur Radio System (MARS) as a joint operation of the Army and the Air Force under Chief Sig. Ofcr., Dept. Army, and Dir. Com., Dept. of Air Force.

Dear ONYX,

Say OM, were you a "Three" back in those old days? I've got an idea that perhaps I was that other guy! I was an "Eight" then and of course well remember the VT-2, the helix, the counterpoise and all the trouble getting those stupid things to work properly.

I liked the UV-202 better than the old signal corp VT-2. They were rated at 5 watts with a maximum of 350 volts. We used to take the bases off, immerse the whole tube in oil, and run 1500 volts AC on the plate—if you keyed real fast! Never did calculate how many watts input but I can tell you I was solid copy in a three block radius on the land line telephone. Those were the daze.

The Old Timer

FOR FREE

FLORIDA SKIP is offering to its subscribers an official U.S. Department of Commerce weather map. This map is perfect for tracing hurricanes, drawing in net stations, and other uses. It is marked off by 5 degree lines, such as 30 N, 35 N, 70 W, 75 W, etc. It shows only the larger cities in Florida, Eastern half of the U.S., the Caribbean area, and South America.

To get a copy send SKIP a self-addressed stamped No. 10 envelope. Limited supply. Another service to our subscribers.

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Broward Amateur Radio Club, Inc.

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By Jim Wilson,
W4GDK, NØWCK

A good solid organization can continue to move forward even with a Change of Watch. That is just what we are going to do in the 6th District Navy MARS as we lose our present District Director, Chief Charles "Mac" McKamey in retirement. We are sorry he is leaving but he has surely earned a happy retirement and we all join in good wishes for him and his fine family, two other members of which are hams also.

An able replacement is coming. He is Chief Radioman Earl Crawford who has just completed a hitch in Naples, Italy. We learn that Chief Crawford is enthusiastic about his new assignment. He can be assured of the fullest cooperation from Navy MARS members in the seven states which make up District Six.

During the month of June there were 5570 phone patches and 5416 messages were handled by the seven active Navy MARS stations in Viet Nam. Included in the phone patches were over 800 for those wounded in action. We are proud of this continuing record which also keeps our stateside nets busy with traffic.

We are sorry to temporarily lose our Palm Bay member Les Stanek NØSDU. He has been sent on a technical mission up to the Dew Line in the Arctic where he will be occupied for quite a few months. A considerable number of our active members are away on vacation trips. When they return they will be surprised to find how many new members we have on our nets.

Those members who thru participation in our nets have qualified to receive surplus radio gear from the Navy are pleased to find that nearly all of it can be put to work at once



NOMARC President, Smitty, K4KRN standing just inside the booth of the Cloverleaf Bowling building in North Miami. This booth was visited by thousands of visitors from the USA and all over South America. Note some of the nice DX QSLs. See front page for details. (Photo via WA4NHT)

BOWLING

(Continued From Page 1)

operators were on hand approximately nine hours a day for the entire affair. The fellows were aided by two other operators who did the interpreting. WA-4UJD, Tracy and WA4ZQO, Charlie did a great job of translating and making the visitors feel quite at home. With a six element beam, on twenty-five foot mast, there was not difficulty making contacts and believe me that there were plenty of requests to talk to folks back home. The fellows did a great job in boosting Amateur Radio and all the people were impressed with what could be done. So pleased was the City of Miami that the Radio Club received a beautiful certificate of appreciation signed by Mayor High and each one of the Councilmen and Councilwomen. A real treasure that will hang proudly in the Clubhouse. A letter from the tournament director was also received with the certificate requesting that the club participate next year be-

in their stations.

Two active teletype nets are as follows:

Sundays 1500Z-- 4040 KHZ
South Florida net
Sundays 2000Z-- 7301 KHZ
6th District Net

We welcome inquiries about Navy MARS from any SKIP reader. You may address this correspondent at 1204 Avocado Isle, Ft. Lauderdale, Fla. 3315. Remember, Navy MARS is active everywhere and we will be glad to forward your inquiry.

cause of the fine job done in spreading goodwill and publicizing the services performed by amateur radio.

COGITATIONS

If listening to the net you've found
An awful lot of SSB going 'round,
Wise up Grandpa and get disturbed
The parade's gone by; you've been curbed.

Ancient modulation is not laid to rest
But proof has shown that it's second best
So now Grandpa, come on along
You can't beat progress; join the throng!

Lloyd

(From the Oregon Netter for March 1966)



FLORIDA ARPSC NETS

FLORIDA PHONE TRAFFIC NET --- Daily, except Sunday, 3945 kc, 1200GMT.
GATOR NET (C.W.) --- Daily, 3651 kc, 1330GMT.
FLORIDA MIDDAY TRAFFIC NET --- Daily, except Sunday, 3945 kc, 1700GMT.
TROPICAL PHONE TRAFFIC NET --- Daily, 3945 kc, 2200 GMT.
QFN ALL FLORIDA CW NET --- Daily, 3651 kc, 2330 and 0300GMT.
FLORIDA "FAST" SSB NET --- Daily, except Saturday, 3940 kc, 2300GMT.
WEST FLORIDA PHONE NET --- Daily, 3950 kc, 2300GMT.
FLORIDA AMATEUR TELETYPE TRAFFIC NET --- Daily, 3700 kc., 2330GMT.

XYL Awards

Just learned about you from Kip, G8PL, So...I wondered if my lil, long suffering wife could be eligible for your award?

Am 53 years old, been in ham radio since 1960. However, turned to DX chasing and award hunting - so you know the hours I keep. During the contests she refrains from vacuum cleaning, cake mixing, clothes washing, etc. Serves my meals in the shack, dutifully takes lessons in Ham from the OM, loves honors and obeys (but wears the pants)! She's a doll and 44 years beautiful. Two grown sons, the younger is WA-6IVN.

By the way, my sis is W2-RUF, a well known YL.

So hope my lil XYL can qualify. Her name is Cathy.

73,
73,
Ray Eichman WA6IVM

I'd sure like to get one of them thar certificates for this crazy mixed up kid who struggles down the path of life with me. Her name is Doris.

Thanks for the opportunity fo showing her I appreciate her.

Sincerely yours,
Fred A. Seroka, K3EIU
Erie, Pa.

NEWS SERVICE

The Amateur Radio News Service is an organization of editors, publishers, etc., of amateur radio newspapers and magazines. The purpose of the organization is to assist editors and publishers in any way possible to help them get out a paper easier, better, etc.

For further information write the Secretary, Helen Brick, 821 W. Lindley Ave., Philadelphia, Pennsylvania 19141.

HAMBAR

This column is FREE to any licensed Radio Amateur who is a subscriber to Florida Skip. Limit 3 per year. Additional \$1.00 each. Non-subscribers and non-amateurs \$1.00 each up to 10 lines. All listings are cancelled each month. If your listing is not moved, it will be necessary to relist the following month.

To Licensed Amateurs: Buy, Swap, Sell (non-commercial)—Free.

To Commercial Business: Classified, undisplayed—50¢ per line: Illustrative or General Display with border—\$3.50 min., \$80/page; Initial cost of cuts, additional. Cuts furnished, no charge. Deadline 10th of month.

An Advertising inch is measured 7/8" vertically on one column, i.e., 4 columns—40 column inches to a page. Rate card by column inch supplied upon request. FLORIDA SKIP, Advertising Department, P.O. Box 501, Miami Springs, Fla.

FOR SALE: Swan 250 and AC supply, brand new, \$399.00; Heath HO-13 Ham Scan, professionally assembled new condx \$69.00; Waters 334 Dummy load/wattmeter, \$69.00. J. W. Gregory, K4OCK, 6495 Killian Drive, Miami, Florida 33156, Telephone MO 1-7576.

FOR SALE: Gonset Communicator IV, 2 meters, with portable carrying case, in excellent condx, make offer; Heath Sixer with mobile supply and mike, \$30.00 FOB. Frank J. Shannon, 4015 Bayshore Blvd., Tampa, Florida 33611, Tel. (813) 832-5012.

IN STOCK, NEW BOXED DRAKE R-4A RECEIVERS, \$399.95. DRAKE TR-4 TRANSCEIVERS \$585.00. AC-3 POWER SUPPLY \$79.95. HAM-M ROTORS \$119.50. TR-44 ROTOR \$64.95. HY-GAIN 18AVQ VERTICALS \$49.95. HY-GAIN 2 METER 8 ELEMENT BEAMS \$16.50. WRITE OR PHONE (813) 722-1843, BILL SLEP, W4FHY, SLEP ELECTRONICS CO., HIGHWAY 301, ELLENTON, FLORIDA 33532.

WANTED: Licensed Ham in each of the following cities: Jacksonville, St. Petersburg, Tampa, Orlando, Pensacola, Tallahassee, and Ft. Lauderdale to serve as FLORIDA SKIP ADVERTISING REPRESENTATIVES. Must be responsible persons, experience unnecessary, but considerable sales ability recommended. We want men who can operate in their immediate area as a service to the community and an aid to the business world. All letters answered. Write W4JO Florida Skip, Inc., P.O. Box 501, Miami Springs, Florida.

FOR SALE: Heath HW-22 for 40 SSB. Hear it or look it over. Excellent condition with \$95.00. A. C. Clark, W4IYT, Lenape Drive, Miami Springs Florida 33166 Phone 888-3874.

URGENTLY NEEDED manual or diagram of Surplus RAX-1 aircraft receiver. H E L P. FOR SALE: Black Bud cabinet 37 inch high, top and back doors, clean. \$16.00. Deluxe gray Bud cabinet, 70 inch high with back door—has heavy duty base with sasters, looks like new, \$30.00. Hundreds of transformers, high voltage condensers and other parts—what do you need? Andy Clark W4IYT, 41 Lenape Drive., Miami Springs, Fla. 33166 Phone 888-3874.

NOTICE: New class for Novices at the North Miami City Hall (Basement) each Wednesday night at 8 PM. Sponsored by the North Miami ARC. Tell your CB and would-be ham friends.

FOR SALE: B&W compression amplifier, easily installed in any B&W generator. Cost \$50.00 sell for \$15. Harold Ferry W4BNH, P.O. Box 862, Crystal River, Fla. 32629.

FOR SALE: Eico 5 inch scope model 425 with hi voltage probe \$25.00, 250 watt 150 mc RCA FM base station in 7 ft. cabinet \$50.00. Heath Grid dip meter \$10.00. Oliver F. Loverdahl W4AHZ, Box 8815, Ft. Lauderdale, Fla. Phone 583-7812 week days only.

WANTED: All hands to attend TAMPA HAMFEST Sunday, October 16, 1966. Rowlette Park, Hillsborough River and 22nd Street. Bring your gear. Hillsborough Amateur Radio Society, Inc.

FOR SALE: Apache TX-1 transmitter and SB-10 SSB. \$180.00. HQ-129X and Hammarlund HC-10 conv. \$155.00. T. R. Higgins W4QJR, 4803 Lake Charles Dr. N., St. Petersburg, Fla. 33709 Phone 54400163 after 5:30 p.m.

FOR SALE: BC-348 converted to 110 v.a.c. linear amplifier GG 500 watts \$65.00. Johnson Ranger a real cream puff. \$125.00. Howard Stark W4MTH, 9231 Caribbean Boulevard, Miami, Fla. 33157 Phone 235-4021.

FOR SALE: COLLINS 32V2 and 75A1 with spare 4D32 \$275.00. Ameco TX-62 and matching VFO with 2 and 6 nuvistor converters, power supply and switching unit \$190.00. Swan 175 \$125.00. Heath HO-10 monitor scope \$45.00. Will deliver or meet you 150 miles radius Columbus. WANT perfect SR-150 with a.c. power supply. Howard L. Schonher W4RZL, Box 1902, Columbus, Ga. 31902.

FOR SALE: Heath 6'er clean. Heath 2'er clean. 40 foot crank up tower. Will sell or trade. WANT: DX-35 or 40 small receiver. Gale Tittle K4YXT, Rt. 1, Box 433, Citra, Fla. 32627.

FOR SALE: National NC-270 \$155.00 or trade for excellent Drake 2-B, NTS-3 speaker \$10.00. HT-40 transmitter \$45.00. Ky-gain 5 element 6 meter beam \$10.00. Jim Keller K4YBB, 942N.W. 116th Street, Miami, Florida 33168.

CERTIFICATE HUNTERS work very hard for their wallpaper on QFN daily at 2330Z and 0300Z on 3651. Join us gents...W4LUV, QFN mgr.

FOR SALE: Knight T-150, 80-6 M transmitter \$90.00 Harrlicrafter AR-R-5 28 to 140 MHz AM-FM receiver \$25.00. Heath HG-10 VFO 80-2 M., \$35.00. Ameco CB-6 6 meter converter \$10.00. 2 meter 829B 100 watt amplifier \$15.00. 16 element 2 meter collinear antenna. \$10.00. Don and Judy Hayman W4JBI, W44NQS, 6301 SW 93rd Ave., Miami, Fla. 33143.

FOR SALE: HT-32 looks and works like new, has new power transformer \$210.00, or trade LIKE NEW SB-200. Mohawk RX-1 receiver very clean, just aligned \$100.00. Pres Graham, W4FDA, 7305 May Apple Road, Jacksonville, Fla. Phone 725-4453.

FOR SALE: SBE-33 in mint condition, mobile power supply, turner PTT

mike, 14Avs HiGain vertical antenna. Complete station \$250.00. Jerry Smith W7AVA/4 Box 3126, Forest City, Fla. 32751.

DO YOU need a small antenna? 10-15-20 meter dipole specially made by Mark Hellwhip products. 12 ft. long \$25.00. Neal Attkins W4EWY, 6565 Santana Street, Coral Gables, Fla. Phone 665-5726.

FROM ESTATE of Frank A. Pierson W4GPP: Western Union teleprinter similar to Model 15, very good condition \$75.00. Don Wiggins teletype converter with surplus conversion monitor scope \$40.00. Heath DX-40 transmitter with VF-1 VFO, \$50.00. Write or call Henry Pfister W4CCC, 200-6th Street SE, Winter Haven, Florida. Phone 294-1713.

FOR SALE: 64 element 432 colinear antenna, make offer. E-Z way tower 40 ft. Galv. with ground post. Good condition excellent for VHF antennas, \$120.00. NC-300 good condx with xtal calibrator and speaker \$125.00. Communicator II just overhauled 6 meter model \$75.00. B & K model 700 mutual conductance tube checker (cost \$179.50) my price \$50.00. Alliance model C-225 rotator transistorized \$20.00. Lots of misc. also for sale converters etc. Phone TU 7-6453 to be changed soon. C. Barnes K4DZP, 1280 W. 37th Street, Hialeah, Florida.

WANTED: Instructional Manual or schematic for RME/Electro voice dual conversion receiver model 4350. John E. Spiegel W4MEL, 1586 Moravia Avenue, Holly Hill, Fla. 32017.

FOR SALE: Clegg 99'er 6 meter transceiver complete with 6 xtals, mike and Hy-Gain 5 element beam \$125.00. HQ-170 receiver and 250 watt Johnson Valiant transmitter \$150. each. Firm. C.E. 600 L SSB linear Amp. \$185.00 no ship, you pick up. Bill Setbiffe W4UGQ, 600 Fern Drive, Port Charlotte, Fla. Phone National 5-4881.

14 amateur Weather Instrument plans. Rain gages, barometers, speed/direction, etc. \$2.00. J. Millers, Box 2513F, South Bend, Ind. 46614

FOR SALE: Globe Scout Deluxe 90 watts, Heath HR-10 receiver, semi-automatic key and pair of headphones, all in like new condition for \$125.00. Hurry and pick up before I change my mind. No shipping. T. D. Dickie K4COO, 615 Alberta Avenue, Auburn-dale, Fla.

WANTED: TA-33 senior. Please state price and condition. John Boyle W4ZDV, Rt. 1, Box 373, Englewood, Fla. 33533.

SLAVE DRIVER QFN net managers want to whip your operating savvy into shape. 2330Z and 0300Z daily—3651 Khz. Do you savvy? W4LUV QFN Mgr.

FOR SALE OR TRADE: 32V3Collins, Collins 75A2, \$150.00 each or trade 2 and 6 meter xmtrs. Al Bates W4LFL, 15001 SW 74th Avenue, Miami, Florida, Tel. 238-4428 10 to 12 AM daily.

WANTED: Communication receiver, will swap 14 hp Evinrude. Ralph Biddle, W4BGZ, 1839 47th Avenue, N., St. Petersburg, Florida.

FOR SALE: HT-45 Loudenboomer less power supply with final tube included \$200.00. Collins 32S-3 with 516-F2 power supply and speaker \$600.00. Hy-Gain full size 3 element 15 meter beam never out of its carton \$35.00. A beautiful final 1000-A with 4000 volt solid state power supply plus an extra 1000-A, 50 mfd of filter. This is a real commercial job, vacuum variable B & W one KW all band coil fully metered plus antenna relay and steal at \$350. One Jennings Vacuum variable UCSV-110 \$35.00. Two (2) Collins mech. 3.1 filters at \$35.00 each. Ray Farwell W4BJ, 370 NE 147th Terrace, Miami Florida. 33161 phone 754-0400.

FOR SALE: HQ-170 receiver, mint condition, \$180.00; Johnson Ranger transmitter, very good condition, \$115.00, with new final tube. Claude E. Belcher K4DBM, 3504 Plum St., Jacksonville, Florida 32205.

WANTED: Two meter gear, Pawnee or Communicator 2 or 3. State age, conditions, etc., must be reasonable. Geo. Beck, W4ZO, 55 E. Bedell St., Freeport, L. I., N. Y. 11520.

FOR SALE: ART-13 transmitter, unmodified, 2-20 mhz continuous @ 500 W CW or AM, with plate transformer; 12 inch speaker in fiberglass packed cabinet, 20 meter receiver built around BC-453, not completed but with diagrams, make offer. Dick Blasco W44DHU, 6270 N. W. 38th Terrace, Virginia Gardens, Fla. 33166, Tel 887-1166.

FOR SALE: 75A3 receiver, HT-32 SSB exciter and Johnson T-Bolt amplifier in good condition. Urgently need money, will accept any reasonable offer. Will deliver within 75 miles of Miami. Larry Eisler, W4AAV, 11201 S.W. 181st Terrace, Miami, Florida.

FOR SALE: National NCX-3 with NC-XA-AC supply. Both in excellent condition, first MO for \$250.00 takes it. You pick up or pay shipping. Henry J. Wittenberg, K4NNI, 35 Valhalla Avenue, Omond Beach, Fla. 32074, Tel. 677-4550.

WANTED: Johnson Kilowatt Matchbox. Give details of age, condition, whether or not it has SWR meter included, and your best price. Ken Stewart W4SMK, 2267 Maple Avenue, Ft. Myers, Florida.

FOR SALE: WOW! Valiant transmitter and HRO-50 receiver \$100.00 for either one or will sell both for only \$150.00. HRO has all coils and both in very good condition. Russ Brackett W44GRM, 2727 Sea Spray St. Sarasota, Fla. Phone 924-5472.

FOR SALE: Ameco 50, 144 and 220 mc VFO, model VFO 621, like new, 1 month old. Also Ameco 50 mc nuvistor preamp like new. Heath grid-dip meter A-1 condition. VFO-621 \$45.00. Preamp \$10.00. Grid Dipper \$8.00. Stan Bittner W4JKK, 3081 Mary Street, Miami, Fla. 33133

CHALLENGE: We dare you to test your pride in your operating ability. QFN daily at 2330 and 0300 GMT on 3651 Khz. W4LUV QFN mgr.

WANTED: Socket and chimney for a PL-172 tube. Jim Wilson W4GDK, 1204 Avocado Isle, Ft. Lauderdale, Florida 33315.

"DER PIPPENSQUEAKER"

(Continued From Page 1)

the difficulty with chirp encountered with many 6AU6s. The entire v.f.o. assembly is built into a small aluminum minibox which provides excellent and good mechanical rigidity. The tuning capacitor is one of the small "APC" type with all but two of the rotor plates removed. This is driven by a National 6-1 reduction planetary drive with an arbitrarily calibrated (0-100) dial on the front panel.

ISOLATION AMPLIFIER

When the output of the v.f.o. was fed directly to the grid of the 5763, some grid current flowed and this was enough to change the frequency of the v.f.o. 100 cycles or more. The 6AU6 isolated amplifier was inserted in the amplifier train to avoid this. It is biased beyond cut-off from the voltage divider network across the bias supply and is not keyed. Thus, if any grid current flows (doubtful) at least the same amount flows whenever the v.f.o. is running and does not vary according to the bias present at any given moment on the grid of the 5763 driver tube.

The output of the isolation amp is broadly tuned by a small peaking coil made by winding 350 turns of #30 enamel covered wire on a Miller 4500 ceramic coil form with a tuning slug of powdered iron. The turns are scramble-wound over a space of about 0.75 inches. There is enough self-capacitance across the coil to resonate it at 1.8 Mc. without external lump capacity being added. The coil is peaked at the center of the band (about 1812 Kc.) by adjusting the slug. This effectively converts the isolation amplifier into a frequency doubler. The output goes to the grid of the 5763.

DRIVER

The 5763 driver is a conventional tuned grid-tuned plate r.f. amplifier, except that the plate voltage is permitted to run somewhat higher than the books specify. This seems to do no harm and is simpler than trying to cut it down. The screen voltage is adjustable with a pot in a voltage divider network across the 400-volt supply, thus permitting the output to be adjusted to give the desired grid current in the following stage. This tube is entirely self-biased



This part of Field Day seems the easiest--loading up and going home. Left to right K4MAC, Panama City ARC President; WA4IMC FD Chairman; and K4MZA EC. As you can see W5MPK/4 supplied the equipment transportation and this photo. Anyone for another one??

OSCAR NEWS

SATELLITES IN ORBIT. To the best of our knowledge, OSCAR 3 and OSCAR 4 are still in orbit, but neither one seems to be operating. OSCAR 3 carried a one-year timer that should have turned it off in March. There was one recent report concerning the reception of OSCAR 3, but it must be discounted due to a lack of additional confirmations. OSCAR 4 was last heard in Australia and New Zealand during April.

SATELLITES UNDER DEVELOPMENT. A recent letter from DJ4ZC indicates that the 2-meter to 2-meter translator is progressing well. Barring unforeseen difficulties, it could be launched late this year as OSCAR 5. Progress on the backup unit (a 2- to 10-meter translator) has been slowed by work pressures on members of the development team. Some additional engineering help has been recruited and progress should improve.

The ARIES group (Los Angeles) is making excellent progress on a translator package which should be available for operation early next year.

A team at Melbourne University in Australia is assembling a beacon-telemetry package, which has been tested in a balloon launch. A similar 7-channel telemetry module has been delivered to OSCAR by the Rochester Minnesota group. Integrated circuit modules are being procured to miniaturize and reduce the power consumption of this unit, which will be an exceptionally fine addition to the OSCAR program.

If all of these packages are delivered as planned, we shall encounter a problem not previously experienced by OSCAR; a shortage of launch space. In the past, the number of launches has been limited by a lack of flight equipment.

At this time, no one knows what equipment will fly as OSCAR 5. The final choice may, as it has in all previous launches, depend on the equipment available at the time of the launch. The final decision will rest with the Board of Directors of Project OSCAR.

Visitors to OSCAR Headquarters - In the past few months we have had visitors from Argentina, Malaysia and New Zealand as well as from the USA.

Contributions to OSCAR - Many participants have made cash and material contributions to OSCAR. Project OSCAR, Inc. is a nonprofit scientific organization. Residents of the United States may deduct contributions (up to a specified amount) from their federal income tax. Address: OSCAR PROJECT, Inc., Foothill College, Los Altos, Calif. 94022.

in operation, and is cut off by fixed bias in the key-up condition.

Next month we will go into Keying, Final Amplifier and Output network-QRX.

FCC License

The highly successful amateur and commercial phone license course will be given again this year starting September 7th at Southwest Miami High School. Several amateurs have passed the extra class exam as well as 2nd and 1st class commercial phone. All attributed their success to the help gained through the course because it provided a regular, programmed study series.

The 'upgraded' 2nd class phone license examination stresses clear thinking. The applicant may know all the facts about electronics, but if he can not understand clearly what is asked for in the question, the facts will be of little use. It is this ability to analyze a question and avoid distracting words that is emphasized in the license course. Many multi-choice answer tests are given and the questions analyzed to prepare the student for a typical FCC examination.

For information on the amateur course, call Hal Williams at Dade County Civil Defense, 271-8851, (8 AM-5 PM)

If you would like specific information about the commercial course, call Al Wilcox WA4ELR, at 661-2804. He is the instructor and will be glad to talk to you about it at any time.

NOVICE HURRICANE NET (NHN) REORGANIZES

The Novice Hurricane Net (NHN) has been reorganized and started operation on July 30, 1966 on 7165 Kc. Fred Stadenberg Jr., WA4YAK is net manager and NCS.

The Net meets every Saturday at 19:30 GMT (2:30 PM EST) on 7165 Kc. The purpose of the Net is to train beginners in handling traffic, weather reporting, and in net operation.

Anyone interested in joining NHN is invited to check in, or if additional information and an outline of net procedure is wanted, write to Fred at 1305 E. Norfolk Street, Tampa, Florida, 33604.

Charter Members of the reorganized net are: Wn4BSM, Tampa; Wn4DBZ, Dunedin; Wn4DFR, Indalantic; Wn4BZO, Clearwater; Wn4BSN, Jacksonville; WA4ZBJ, Tampa, and W4-UHF, Tampa, who was one of the net members when the NHN first started in 1955, and of course WA4YAK, NCS.